Scholarship of Teaching :
What Does it Mean? Why is it important?

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4-6-22

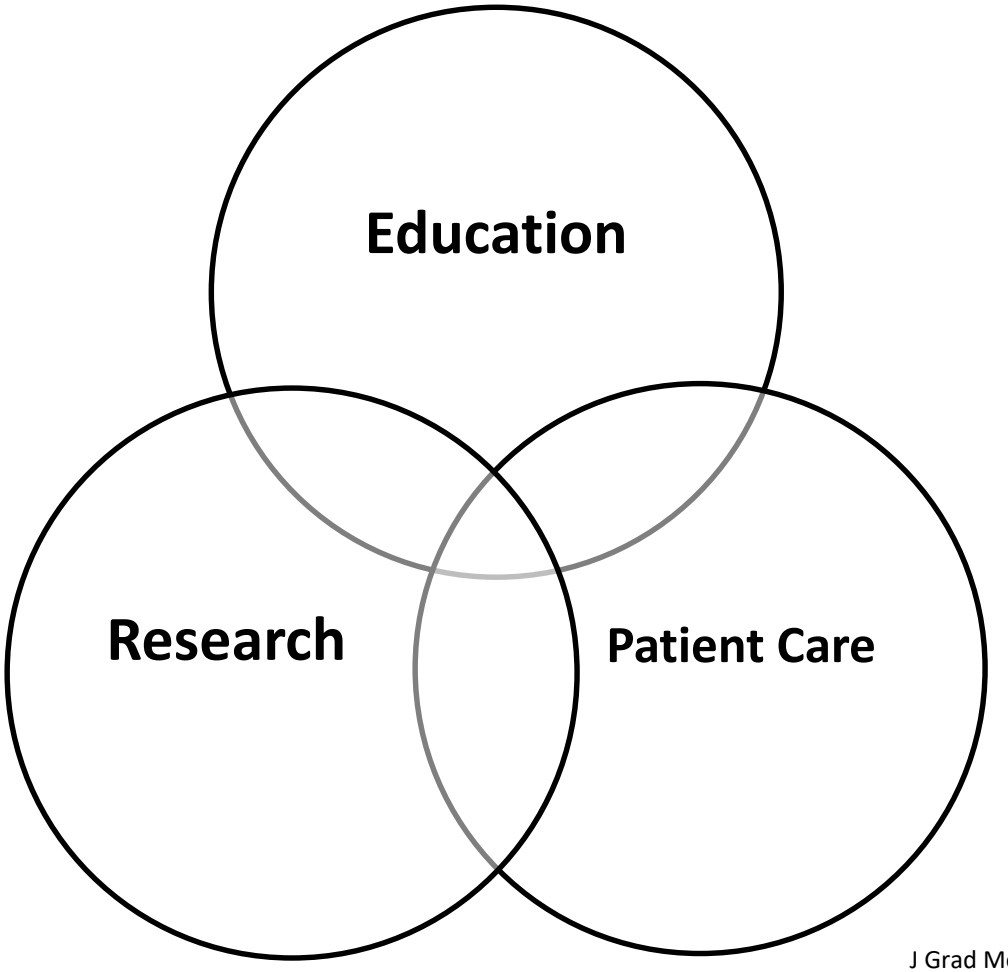
Reframe your thinking !about daily activities in academia

Learning Objectives

- Define & Describe scholarship in academic medicine (Boyer's & Glassik)
- Recognize the value of scholarship
- Describe a broad range of activities that constitute educational scholarship
- Identify how to get started with educational scholarship
- Determine existing outlets to publish educational products

Core Mission

:



J Grad Med Educ. 2012 Mar; 4(1): 111–112.
doi: 10.4300/JGME-D-11-00310.1

Scholarship by Definition

- Activities which demonstrate a faculty member's discipline or content expertise in the discovery, acquisition, application, integration**,** synthesis or creation of knowledge and creative works

Standards for Assessing Scholarship: Glassik's Criteria

- Clear Goals
- Adequate Preparation
- Effective Methods
- Meaningful Results
- Effective Presentation
- Reflective Critique

◦ Glassik, CE Academic Medicine 2000

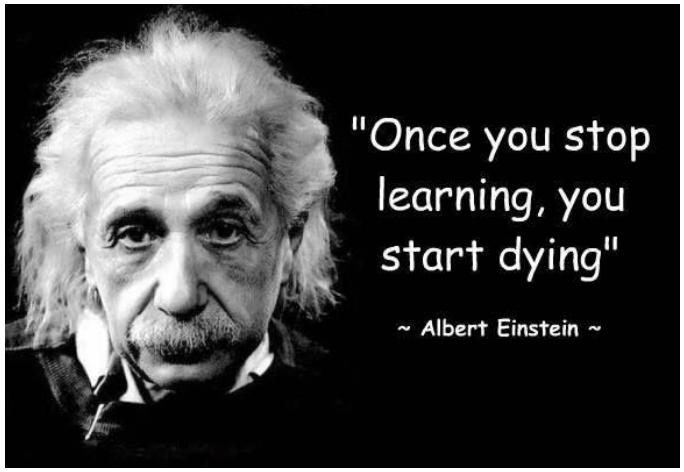
- Definition is under Marshall University BOG policy:

https://www.marshall.edu/board/files/MUBOG-AA-26-Faculty-Promotion-2020-01.pdf

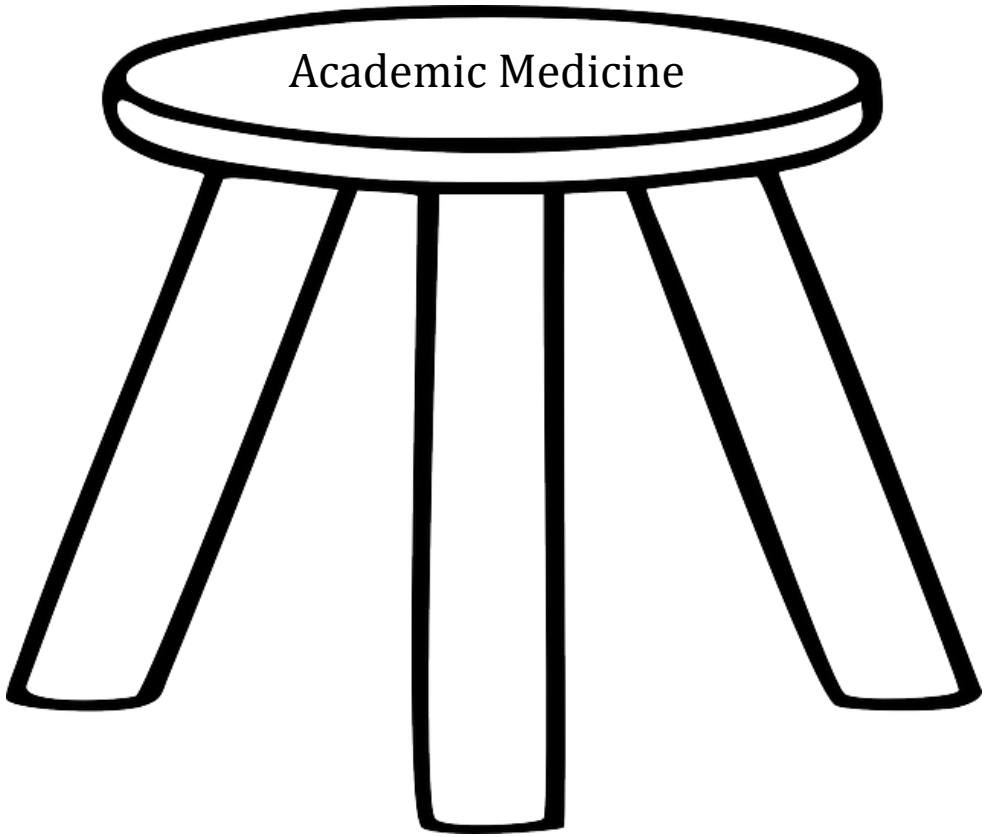
- Research, Scholarship, and Creative Activities responsibilities and duties may include, but are not limited to: number, quality and importance of publications and creative productions; memberships and contributions to professional societies; professional growth and development; scholarly presentations and creative performances; and contributions to the professional development and achievement of colleagues.

Why do scholarship?

- To Develop Self
  - To improve the way you teach
  - To improve what and how your students learn
  - To improve your clinical care
  - To make advances in science
- To Develop Others
- To change policy or procedures
  - Improve medical education
  - Improve Patient's health
  - Improve quality and safety
  - To be recognized as an expert
- Promotion or official change in status
  - Institutional recognition of scholarship
  - National recognition



Typical Model of Scholarship



Research

Clinical Care

Teaching

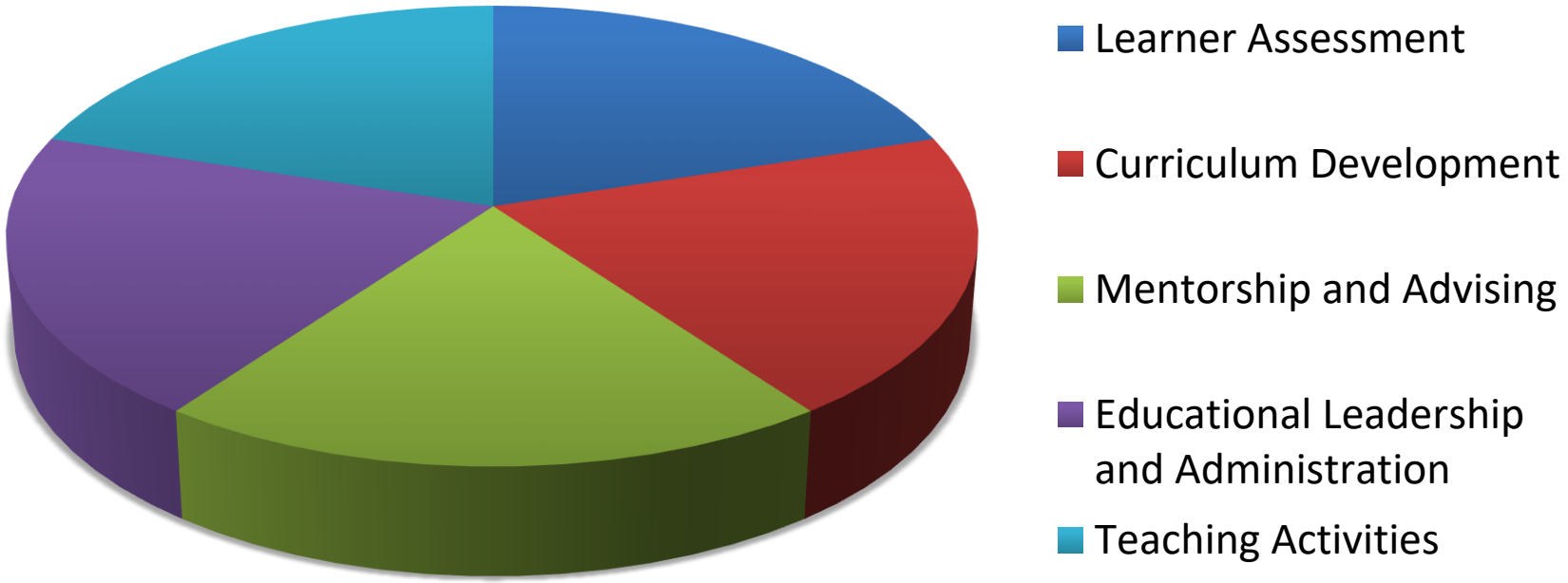
What is Educational Scholarship?

- Addressing Problems
  - "…Redefine the word "problem." Something that is a "problem" in your teaching is not something to be sidelined, or avoided. Instead, it is an avenue for exploration – a "problem" is a research opportunity."
- Innovations

Rowland & Myatt; Biochem Mol Biol Educ. 2014; 42(1): 6-14

Educator Activity Categories

Possible area for scholarship



Simpson, D., Fincher, R.M.E., Hafler, J.P., et al; Medical Education 2007;41:1002-1009

Use Daily Activities

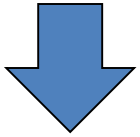
Questions to ask	Scholarship Domain	Example
What is known? What is yet to be found?	Discovery	Faculty in a student led program
How do these findings fit together..with what is already known?	Integration	Analyze effective teaching methods
How can what is known be applied to consequential problems?	Application	Curriculum advisor Physical diagnosis course
How can what is known be shared? How can what is known be transformed?	Teaching	Present at a national meeting

Boyer, E,L (1990): Scholarship reconsidered: Priorities of the professoriate
Peluso, M.J., Hafler, J.P.,Yale Journal of Biology and Medicine 2011;84:205-209

Application of Knowledge to Solve Educational Problems:

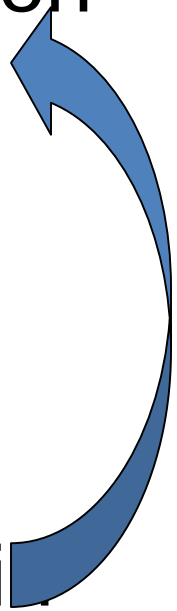
Clerkship failing – frustration/dissatisfaction

Specific interventions and curriculum restructure implemented



Post-intervention evaluation conducted in several formats

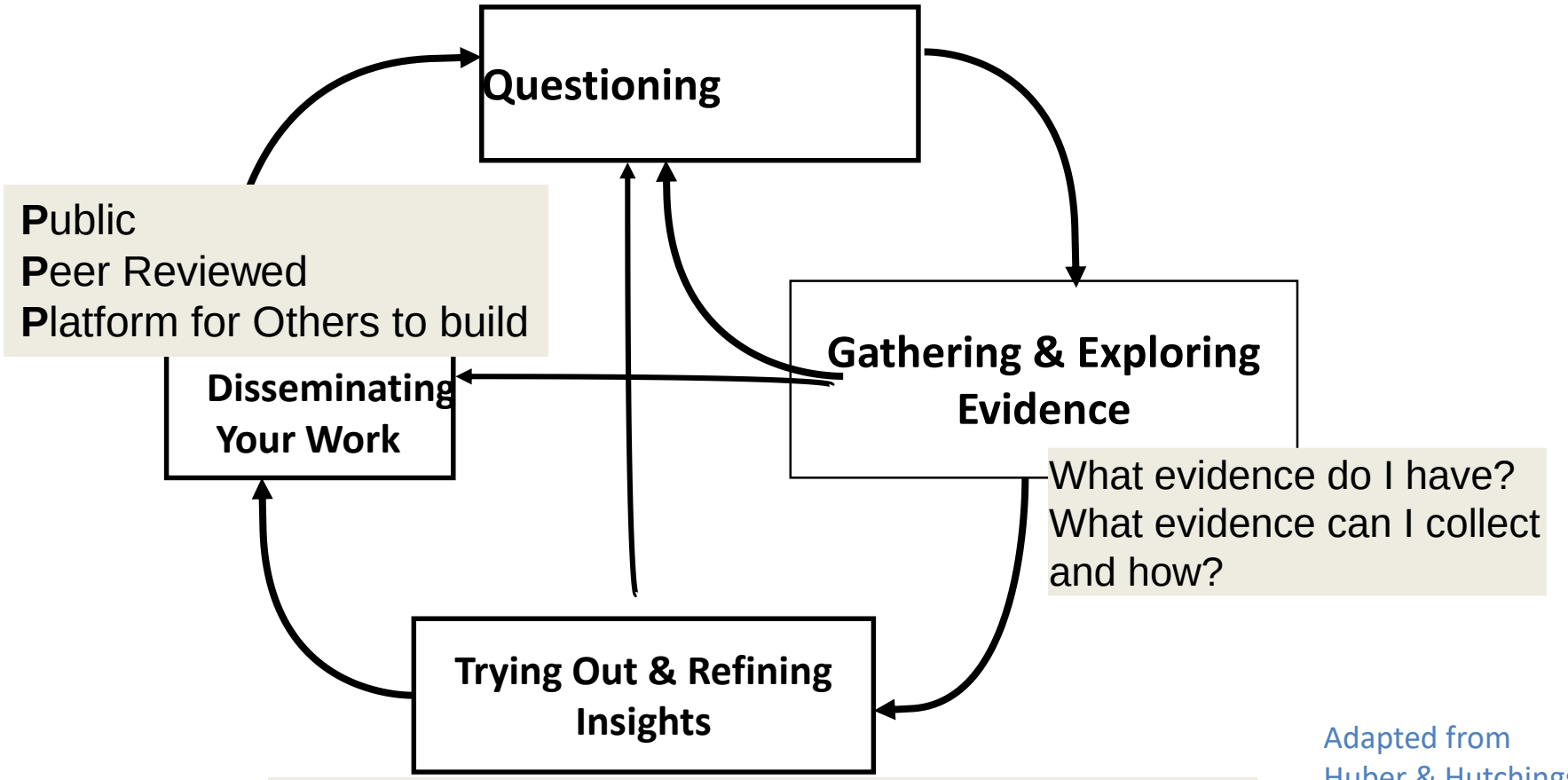
Results shared



Kalet A, Hopkins MA, Riles T.
A rapid clerkship redesign to address new realities. Medical Education 2004; 38: 1181-1202.

Defining Features of Scholarship- Framework

What do I want to know about my teaching or about learning?
How can we improve care for this patient population?
How can I address a challenge in the clinic?

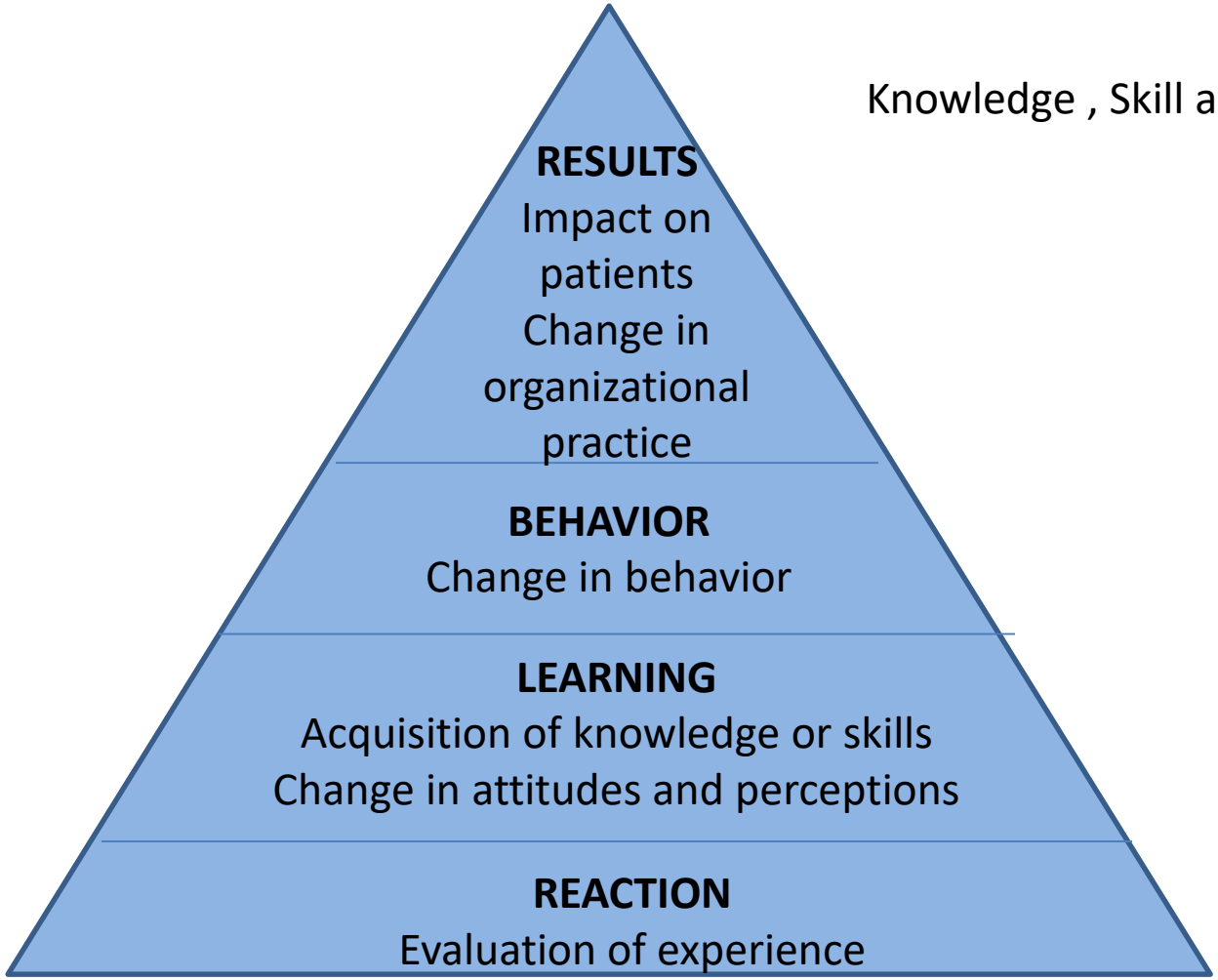


Adapted from Huber & Hutchings (2005)

Examples of Educational Scholarly Product & Outcome Measures

- Knowledge (exams, quizzes, pre and post assessments)
- Skills (observation, OSCE, OSTE)
- Attitudes (questionnaires, interviews)
- Behaviors (360 degree reviews, vignettes, record audits, patient interviews)

Kirkpatrick's levels of evaluation (adapted for education)



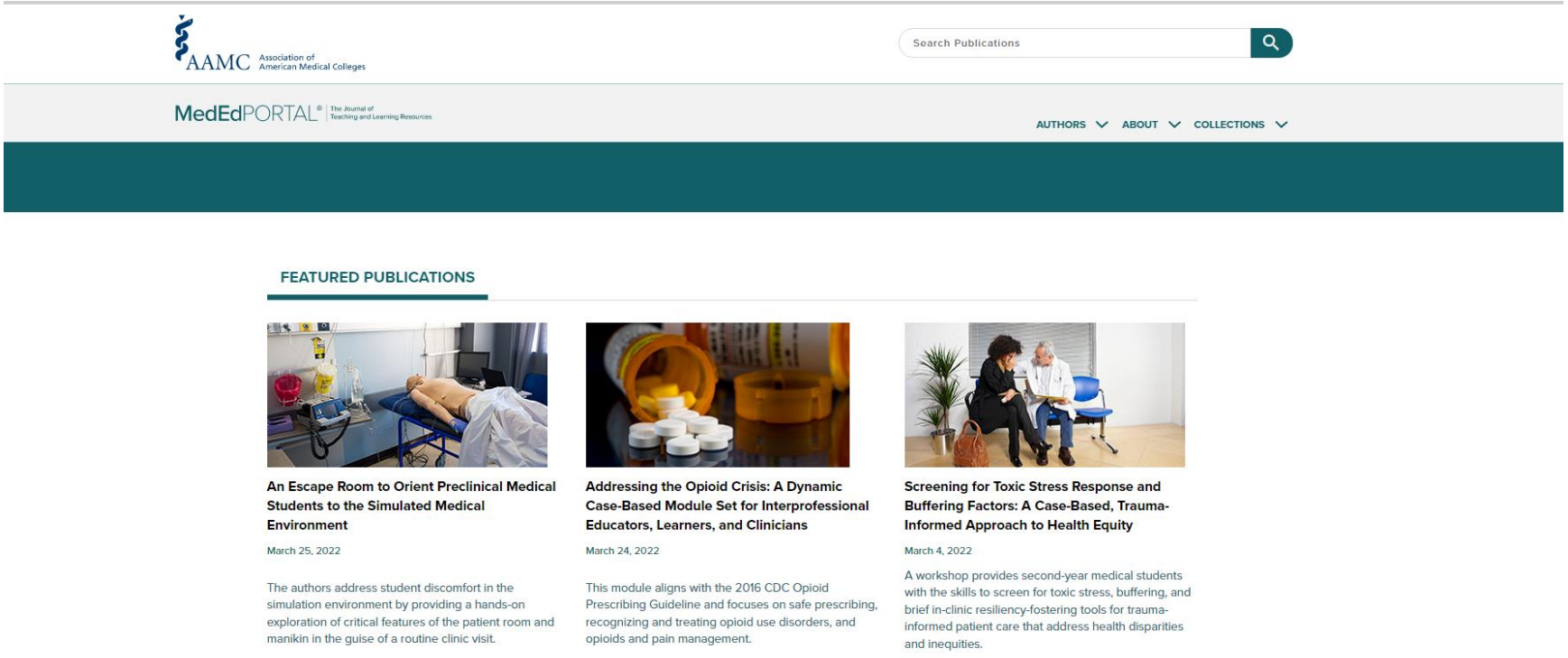
Knowledge , Skill and Attitude

Activities for Scholarship

Activity	*Making it Count Twice!*	
	Discovery	Teaching
Develop a new system for resident hand-offs	Modify and evaluate a new worksheet for hand-offs	Publish an article in an academic journal
Participate in a TBL clinical session in Physiology	Present a workshop at national or regional meeting on TBL	Publish curriculum on MedEdPORTAL

Walvoord E, Hobson-Rohrer W, Bogdewic S. Getting promoted: turning your clinical work into scholarship. MedEdPORTAL Publications. 2014;10:9694. http://dx.doi.org/10.15766/mep_2374-8265.9694
Glassick, Charles, E; Academic Medicine, 2000; 75 (9): 877-880

https://www.mededportal.org/



Educational Scholarly Product Examples

- Surgery 101 Podcast: Episodes 41-50
  - https://www.mededportal.org/publication/9028/
- Interactive Case-Based Clinical Approach to the Painful Shoulder, Elbow, and Cervical Neck
  - https://www.mededportal.org/publication/10294/
- Orientation to the Operating Room: An Introduction to the Surgery Clerkship for Third-Year Medical Students
  - https://www.mededportal.org/search/?q=general%20%20Surgery
- Implementing an Objective Structured Teaching Exercise (OSTE) in an OBGYN Residency Program
  - https://www.mededportal.org/publication/9425/

- Teaching Patient Handoffs to Medical Students in Obstetrics and Gynecology: Simulation Curriculum and Assessment Tool
  - https://www.mededportal.org/publication/10479/
- Interprofessional Train the Trainer Workshop: Teaching Geriatrics to Change Behavior
  - https://www.mededportal.org/publication/9458/

Funding Sources for Medical Education Research Grants

- Agency for Healthcare Research and Quality (AHRQ) Grants
  https://www.ahrq.gov/funding/index.html
- American Association of Neurology Educational Research Grants:
  - http://www.aan.com/go/education/eduresearch
- Amgen Foundation
  - http://www.amgen.com/citizenship/IME_overview.html
- Arnold P. Gold Foundation:
  - http://www.gold-foundation.org/programs/
- Arthur Vining Davis Foundations:
  - http://www.avdf.org/Grants/GrantsOverview.aspx
- Association of Professors of Gynecology and Obstetrics (APGO)
  - https://www.apgo.org/grants-awards/
- Association for Surgical Education Foundation - Center for Excellence in Surgical Education, Research and Training.
  - https://surgicaleducation.com/cesert-grants/

Funding Sources for Medical Education Research Grants - Continued

- AstraZeneca Medical Education Research Grants:
  - http://www.astrazenecagrants.com/
- Fund for the Improvement of Postsecondary Education (FIPSE):
  - http://www2.ed.gov/about/offices/list/ope/fipse/index.html
- The Henry J. Kaiser Family Foundation,
  - http://www.kff.org/
- HRSA-U. S. Department of Health and Human Services
  - http://www.hrsa.gov/
- Josiah Marcy, Jr. Foundation:
  - http://www.macyfoundation.org/apply
- National Institutes of Health
  - http://grants1.nih.gov/grants/index.cfm
- NBME Stemmler Medical Education Research Fund:
  - http://www.nbme.org/research/stemmler.html

Funding Sources for Medical Education Research Grants - Continued

- NSF Directorate for Education and Human Resources:
  - http://www.nsf.gov/dir/index.jsp?org=EHR
- The PEW Charitable Trust:
  - http://www.pewtrusts.com/
- Pfizer Medical Education Grants:
  - http://www.pfizer.com/responsibility/grants_contributions/medical_education_grants.jsp
- RSNA Foundation Radiology Education Grants:
  - https://www.rsna.org/Education_Scholar_Grant.aspx
  - https://www.rsna.org/Radiology_Education_Research_Development_Grant.aspx
- The Robert Wood Johnson Foundation:
  - http://www.rwjf.org/index.jsp
- Society for Academic Continuing Medical Education, Research Grants in Continuing Medical Education
  - http://www.sacme.org/SACME_grants

Institutional Review Board (IRB)

Your project may be classified as…

Exempt
Expedited
Full Review

Insert an image of your Institutional Review Board or Human Investigative Committee website or handbook

Thank you!
Any ???

shah@marshall.edu